

Title (en)

ELECTROSYNTHESIS OF HYDROXYLAMMONIUM SALTS AND HYDROXYLAMINE USING A MEDIATOR, A CATALYTIC FILM, METHODS OF MAKING THE CATALYTIC FILM, AND ELECTROSYNTHESIS OF COMPOUNDS USING THE CATALYTIC FILM

Title (de)

ELEKTROSYNTHESE VON HYDROXYLAMMONIUMSALZEN UND HYDROXYLAMIN UNTER VERWENDUNG EINES VERMITTLERS,EINES KATALYTISCHEN FILMS,VERFAHREN ZUR HERSTELLUNG DES KATALYTISCHEN FILMS UND ELEKTROSYNTHESE VON VERBINDUNGEN UNTER VERWENDUNG DES KATALYTISCHEN FILMS

Title (fr)

ELECTROSYNTHESE DE SELS D'HYDROXYLAMMONIUM ET D'HYDROXYLAMINE UTILISANT UN MEDIEUR, FILM CATALYTIQUE, PROCEDES DE FABRICATION DE CE FILM CATALYTIQUE, ET ELECTROSYNTHESE DE COMPOSES UTILISANT CE FILM CATALYTIQUE

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Abstract (en)

[origin: WO9909234A2] In one embodiment, the present invention relates to a method of making a catalytic film comprising: applying an electric current to an electrochemical cell comprising an anode, a cathode and a solution comprising a film forming compound and a nitrate ion source thereby forming the catalytic film. In another embodiment, the present invention relates to a method of preparing a hydroxylammonium salt, involving the steps of: providing an electrochemical cell containing an anode, a cathode, and a divider positioned between the anode and the cathode, to define a catholyte compartment between the cathode and the divider and an anolyte compartment between the anode and the divider; charging the catholyte compartment with a first solution comprising a nitrogen containing compound and a mediator and the anolyte compartment with a second solution comprising an ionic compound; passing a current through the electrochemical cell to produce a hydroxylammonium salt in the catholyte compartment; and recovering the hydroxylammonium salt from the catholyte compartment.

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